EN

Weather Station Advanced
Model: BAR628HG / BAR628HGU
User Manual

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INTRODUCTION

Thank you for selecting the Oregon Scientific™ Weather Station Advanced (BAR628HG / BAR628HGU). This device bundles precise time keeping, weather forecast, and indoor and outdoor temperature and humidity monitoring features into a single tool you can use from the convenience of your home.

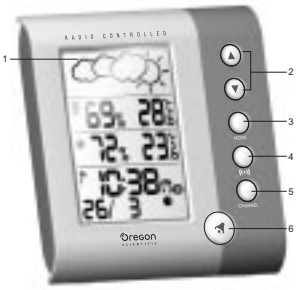
In this box, you will find:

- Main unit
- Remote sensor (THGR122NX)
- Main unit batteries, 3 x UM-3 (AA) 1.5V
- Remote sensor batteries, 2 x UM-4 (AAA) 1.5V

Keep this manual handy as you use your new product. It contains practical step-by-step instructions, as well as technical specifications and warnings you should know.

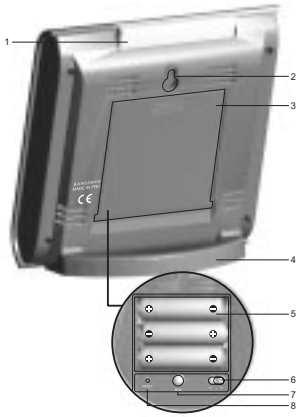
PRODUCT OVERVIEW

FRONT VIEW



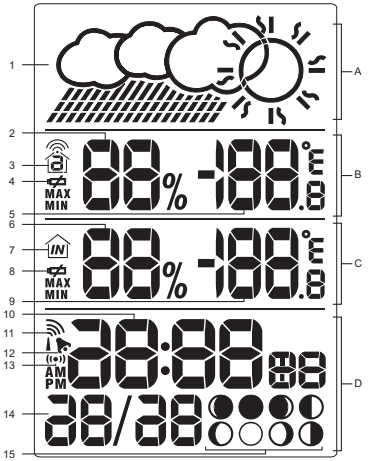
1. **LCD display**
2. ▲ and ▼: Increase or decrease setting / activate or deactivate RF Clock
3. **MODE**: Change display / settings
4. **((•))**: View alarm status; set alarm
5. **CHANNEL**: Switch remote sensor
6. : Press to activate or deactivate alarm

BACK VIEW



1. **SNOOZE** button
2. Wall mount hole
3. Battery compartment (cover on)
4. Table stand
5. Battery compartment (cover off)
6. **°C / °F** switch
7. **MEM**: View current, maximum, and minimum temperature / humidity readings
8. **RESET** hole

LCD DISPLAY

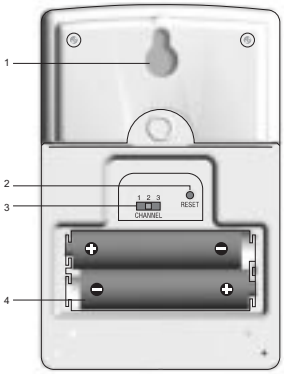


A. Weather Forecast Area
B. Outdoor Temperature & Humidity Area
C. Indoor Temperature & Humidity Area
D. Clock / Alarm / Calendar Area

1. Weather display
2. Outdoor humidity
3. Sensor signal
4. Low battery icon for sensor
5. Outdoor temperature
6. Indoor humidity
7. Indoor icon
8. Low battery icon for main unit
9. Indoor temperature
10. Time
11. Radio Frequency (RF) reception icon
12. Alarm activated
13. Alarm setting
14. Calendar
15. Moon phase

REMOTE SENSOR (THGR122NX)

1. LCD display
2. LED status indicator



1. Wall mount hole
2. **RESET** hole
3. **CHANNEL** number (**1-3**)
4. Battery compartment
   (Battery compartment cover not shown)

GETTING STARTED

BATTERIES

Batteries are supplied with this product:

Main unit 3 x UM-3 (AA) 1.5V batteries
Remote unit 2 x UM-4 (AAA) 1.5V batteries

Insert batteries before first use, matching the polarity (+ and -) as shown in the battery compartment. For best results, install batteries in the remote sensor before the main unit. Press **RESET** after each battery change.

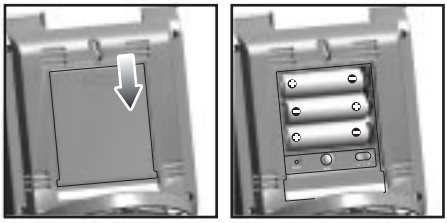
NOTE Do not use rechargeable batteries.

shows when batteries are low.

NOTE It is recommended that you use alkaline batteries with this product for longer performance.

UNIT	LOCATION
Main	Indoor Temperature / Humidity Area
Remote	Outdoor Temperature / Humidity Area

Installing the batteries:



CHANGE SETTINGS

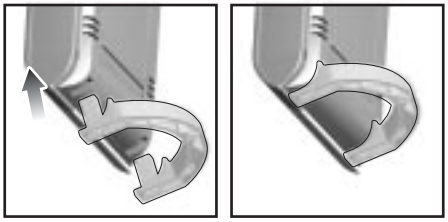
To change, time, calendar and language settings:

1. Press and hold **MODE** for 2 seconds to enter setting mode.
2. Press ▲ or ▼ to change settings. (To reach the setting you want quickly, press and hold ▲ or ▼.)
3. Press **MODE** to confirm.

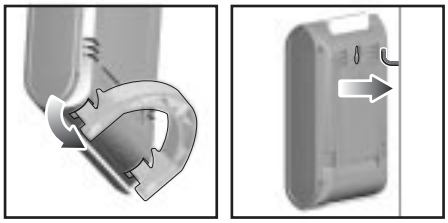
TABLE STAND OR WALL MOUNT

Use the stand on the back of the main unit / remote sensor, or mount it on a wall with a nail.

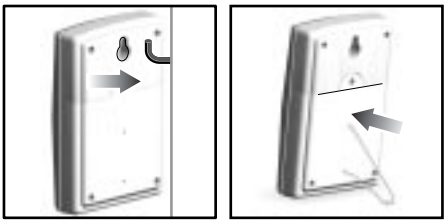
To attach the main unit stand:



To use the main unit wall mount:



To use the remote sensor stand or wall mount:



REMOTE SENSOR (THGR122NX)

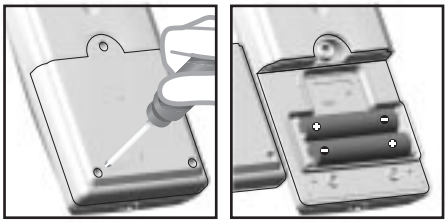
This product is shipped with a THGR122NX Thermo / Hygro Sensor that collects Temperature and Humidity data. Data can be collected from up to 3 sensors. Additional sensors sold separately.

SETUP SENSOR

1. Open the remote sensor battery compartment with a small Phillips screwdriver.
2. Insert the batteries, matching the polarity (+ and -) as shown in the battery compartment.

SWITCH	OPTION
Channel	Channel 1-3. If you are using more than one sensor, select a different channel for each sensor.

3. Set the channel. The switch is located in the battery compartment.
4. Place the sensor near the main unit. Press **RESET** on the sensor. Then, press and hold **MEM** and **CHANNEL** on the main unit to initiate signal sending between the sensor and the main unit. The reception icon on the main unit will blink for approximately 3 minutes while it is searching for the sensor. (Refer to the "Data Transmission" section for more information.)
5. Close the remote sensor battery compartment.
6. Secure the sensor in the desired location using the wall mount or table stand.



For best results:

- Insert the batteries and select the channel before you mount the sensor.
- Place the sensor out of direct sunlight and moisture.
- Do not place the sensor more than 30 metres (98 feet) from the main (indoor) unit.
- Position the sensor so that it faces the main (indoor) unit, minimizing obstructions such as doors, walls, and furniture.
- Place the sensor in a location with a clear view to the sky, away from metallic or electronic objects.
- Position the sensor close to the main unit during cold winter months as below-freezing temperatures may affect battery performance and signal transmission.

You may need to experiment with various locations to get the best results.

DATA TRANSMISSION

Data is sent from the sensor(s) every 40 seconds. The reception icon shown in the Temperature and Humidity Areas show the status.

ICON	DESCRIPTION
	Main unit is searching for sensors.
	At least 1 channel has been found.
	Channel 1 is selected (number will change depending on the sensor you select).
--- shows in Outdoor Temp / Humidity Area	The selected sensor cannot be found. Search for the sensor or check batteries.

SEARCH FOR SENSOR

To search for a sensor, press and hold **MEM** and **CHANNEL** (on the main unit) for 2 seconds.

NOTE If the sensor is still not found, check the batteries, obstructions, and remote unit location.

NOTE Signals from household devices such as doorbells, electronic garage doors, and home security systems may cause temporary reception failure. This is normal and does not affect general product performance. The reception will resume once the interference ends.

CLOCK

The clock automatically synchronizes the current time and date when it is brought within range of the radio signal DCF77 generated from Frankfurt, Germany for Central Europe (model BAR628HG) or MSF60 generated from Anthorn, England (model BAR628HGU).

NOTE The signals are collected by the main unit when it is within 1500 km (932 miles) of a signal.

Initial reception takes 2-10 minutes, and is initiated when you first setup the unit, and whenever you press **RESET**. Once complete, the reception icon will stop blinking. The icon is shown in the Clock Area.

STRONG SIGNAL	WEAK SIGNAL	NO SIGNAL

To force a manual search for clock signals, press and hold ▲ for 2 seconds. If no signal is found, check the batteries.

TURN CLOCK ON / OFF

Perform this step if you cannot receive clock signals. Press and hold ▼ for 2 seconds. Then, manually set the clock following the “Set Clock” instructions (below).

The signal icon indicates that the clock feature is ON. No icon means that it is OFF.

SET CLOCK / CALENDAR

You only need to do this if you have disabled the clock feature (for example, if you are too far from or cannot receive a signal).

1. Press and hold **MODE** for 2 seconds. The Clock Area will blink.
2. Select the hour, minute, year, month, day, and day of the week language. Press ▲ or ▼ to change the setting.
3. Press **MODE** to confirm.

The language options are (E) English, (F) French, (D) German, (I) Italian, and (S) Spanish.

SWITCH CLOCK DISPLAY

Press **MODE** to toggle between Clock with Seconds and Clock with Weekday display.

ALARM

This product is equipped with a 2-minute crescendo alarm.

VIEW ALARM SETTINGS

Press ((•)). The alarm time and alarm status will show in the Clock Area.

SET ALARM

1. Press ((•)) to switch to alarm display.
2. Press and hold ((•)) again for 2 seconds. The alarm settings will blink.
3. Select the hour and minute. Press ▲ or ▼ to change settings. Press ((•)) to confirm.

ACTIVATE ALARM

Press to activate or deactivate the alarm. shows in the Clock / Alarm Area when the alarm is activated.

SILENCE ALARM

When the alarm time is reached, the crescendo alarm will sound for 2 minutes. To silence the alarm:

- Press **SNOOZE** to silence it for 8 minutes.

OR

- Press any key except **SNOOZE** to mute the alarm and activate it again after 24 hours.

If no button is pressed, the alarm will automatically silence after 2 minutes. It will then sound again after 8 minutes.

WEATHER FORECAST

This product forecasts the next 12 to 24 hours of weather within a 30-50 km (19-31 mile) radius with 70 to 75 percent accuracy. The weather forecast is always displayed.

SUNNY	PARTLY CLOUDY	CLOUDY	RAINY

TEMPERATURE AND HUMIDITY

This product can display current, minimum, and maximum temperatures and humidity percentage information collected by the remote sensors and main (indoor) unit.

Outdoor data is collected and displayed every 40 seconds. Indoor data is collected and displayed every 10 seconds.

SELECT TEMPERATURE UNIT

Slide the °**C** / °**F** switch into the desired location. The switch is located in the main unit battery compartment. The setting for the main unit overrides the remote sensor setting.

SELECT CHANNEL NUMBER

Press **CHANNEL** to switch between sensors 1-3.

The icon shows the selected sensor.

KINETIC-WAVE ICON				
DESIG-NATED DISPLAY	Indoor Display	Remote Display Channel 1	Remote Display Channel 2	Remote Display Channel 3

To auto-scan between sensors, press and hold **CHANNEL** for 2 seconds. Each sensor's data will be displayed for 3 seconds. To end auto-scan, press **CHANNEL** or **MEM**.

NOTE If you use a sensor that collects only temperature data, humidity will not be shown.

NOTE For more information on the sensor see "Remote Sensor THGR122NX" Section.

MINIMUM / MAXIMUM RECORDS

The **MEM** button is located in the main unit battery compartment. Press **MEM** to toggle between current, maximum (MAX) and minimum (MIN) records. To clear the records, press and hold **MEM** for 2 seconds. A beep will sound to confirm that the memory has been cleared.

MOON PHASE

The Calendar must be set for this feature to work, see "Set Clock" section.

- Press ▲ or ▼ to view the moon phase for the next or previous day.
- Press and hold ▲ or ▼ to scan quickly through the years (2001 to 2099).

●	New Moon
◐	Waxing Crescent
◐	First Quarter
◐	Waxing Gibbous
○	Full Moon
◑	Waning Gibbous
◑	Last Quarter
◑	Waning Crescent

RESET SYSTEM

The **RESET** button is located in the main unit battery compartment. Press **RESET** when you change the batteries and whenever performance is not behaving as expected (for example, unable to establish radio frequency link with remote sensor or clock).

SAFETY AND CARE

Clean the product with a slightly damp cloth and alcohol-free, mild detergent. Avoid dropping the product or placing it in a high-traffic location.

WARNINGS

This product is designed to give you years of service if handled properly. Oregon Scientific will not be responsible for any deviations in the usage of the device from those specified in the user instructions or any unapproved alterations or repairs of the product. Observe the following guidelines:

- Never immerse the product in water. This can cause electrical shock and damage the product.
- Do not subject the main unit to extreme force, shock, or fluctuations in temperature or humidity.
- Do not tamper with the internal components.
- Do not mix new and old batteries or batteries of different types.
- Do not use rechargeable batteries with this product.
- Remove the batteries if storing this product for a long period of time.
- Do not scratch the LCD display.

NOTE The technical specification of this product and contents of this user guide are subject to change without notice. Images not drawn to scale.

TROUBLESHOOTING

PROBLEM	SYMPTOM	REMEDY
Calendar	Strange date / month	Change language (➔5)
Clock	Cannot adjust clock	Disable clock (➔5)
	Cannot auto-synchronize the date and time	1. Adjust batteries (➔4) 2. Press **RESET** (➔7) 3. Manually activate clock feature (➔5)
Temp	Shows “LLL” or “HHH”	Temperature is out-of-range
Remote sensor	Cannot locate remote sensor	Check batteries(➔5) Check location (➔5)
	Cannot change channel	Check sensors. Only one sensor is working (➔5)
	Data does not match main unit	Initiate a manual sensor search (➔5)

SPECIFICATIONS

MAIN UNIT DIMENSIONS

L x W x H	116 x 55 x 127 mm (4.6 x 2.2 x 5 inches)
Weight	186 g (6.6 ounces) without battery

REMOTE SENSOR DIMENSIONS

L x W x H	92 x 60 x 20 mm (3.6 x 2.4 x 0.79 inches)
Weight	63 grams (2.22 ounces) without battery

TEMPERATURE

Unit	°C / °F
Indoor range	-5°C to 50°C (23°F to 122°F)
Outdoor range	-20°C to 60°C (-4°F to 140°F)
Resolution	0.1°C (0.2°F)

RELATIVE HUMIDITY

Range	25% to 95%
Resolution	1%
Memory	Minimum / maximum

WEATHER FORECAST

Display	Rainy, cloudy, partly cloudy, sunny

REMOTE SENSOR (THGR122NX)

RF frequency	433 MHz
Range	30 metres (98 feet) with no obstructions
Transmission	every 40 seconds
Channel No.	1-3

CLOCK

RF Clock	Auto or manual (disabled)
Clock display	HH:MM:SS
Hour format	12hr AM / PM (Model BAR628HGU) 24hr (Model BAR628HG)
Calendar	DD / MM; weekday in 5 languages (E, D, F, I, S)

Alarm	Single alarm with 2-minute crescendo and 8-minute Snooze

POWER

Main unit batteries	3 x UM-3 (AA) 1.5V
Sensor batteries	2 x UM-4 (AAA) 1.5V

NOTE It is recommended that you use alkaline batteries with this product for longer performance.

ABOUT OREGON SCIENTIFIC

Visit our website (www.oregonscientific.com) to learn more about Oregon Scientific products. If you're in the US and would like to contact our Customer Care department directly,
please visit: www2.oregonscientific.com/service/support
OR
Call 1-800-853-8883.
For international inquiries, please visit:
www2.oregonscientific.com/about/international

EU-DECLARATION OF CONFORMITY

Hereby, Oregon Scientific, declares that this Weather Station Advanced (Model: BAR628HG /BAR628HGU) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the signed and dated Declaration of Conformity is available on request via our Oregon Scientific Customer Service.

CE

COUNTRIES RTTE APPROVAL COMPLIED

All EC countries, Switzerland (CH)

and Norway (N)

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Weather Station Advanced
Model: BAR628HG / BAR628HGU

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